

**Fig. 1A**

Example Direct Shipping Cost Database (cost per 5 lbs.)

	<i>112a</i>	<i>112b</i>	<i>112c</i>	<i>112d</i>
	Distribution Center ("DC") 1	DC 2	DC 3	DC N
<i>111a</i>	<b>0-5 miles, courier</b>	\$10.00	-	-
<i>111b</i>	<b>0-150 miles, domestic ground</b>	\$2.25	\$2.00	\$2.00
<i>111c</i>	<b>150-1000 miles, domestic ground</b>	\$3.00	\$2.50	\$3.00
<i>111d</i>	<b>1000-2500 miles, domestic ground</b>	\$4.00	\$3.50	\$4.50
<i>111e</i>	<b>2500+ miles, domestic ground</b>	\$5.00	\$4.50	\$6.00
<i>111f</i>	<b>0-3000 miles, domestic next day air</b>	\$8.50	\$8.50	\$8.00
<i>111g</i>	<b>3000+ miles, domestic next day air</b>	\$12.00	\$12.00	\$11.00
<i>111h</i>	<b>0-3000 miles, foreign air</b>	-	\$19.00	\$20.00
		⋮		

*Fig. 1B*

Example Direct Labor Cost Database

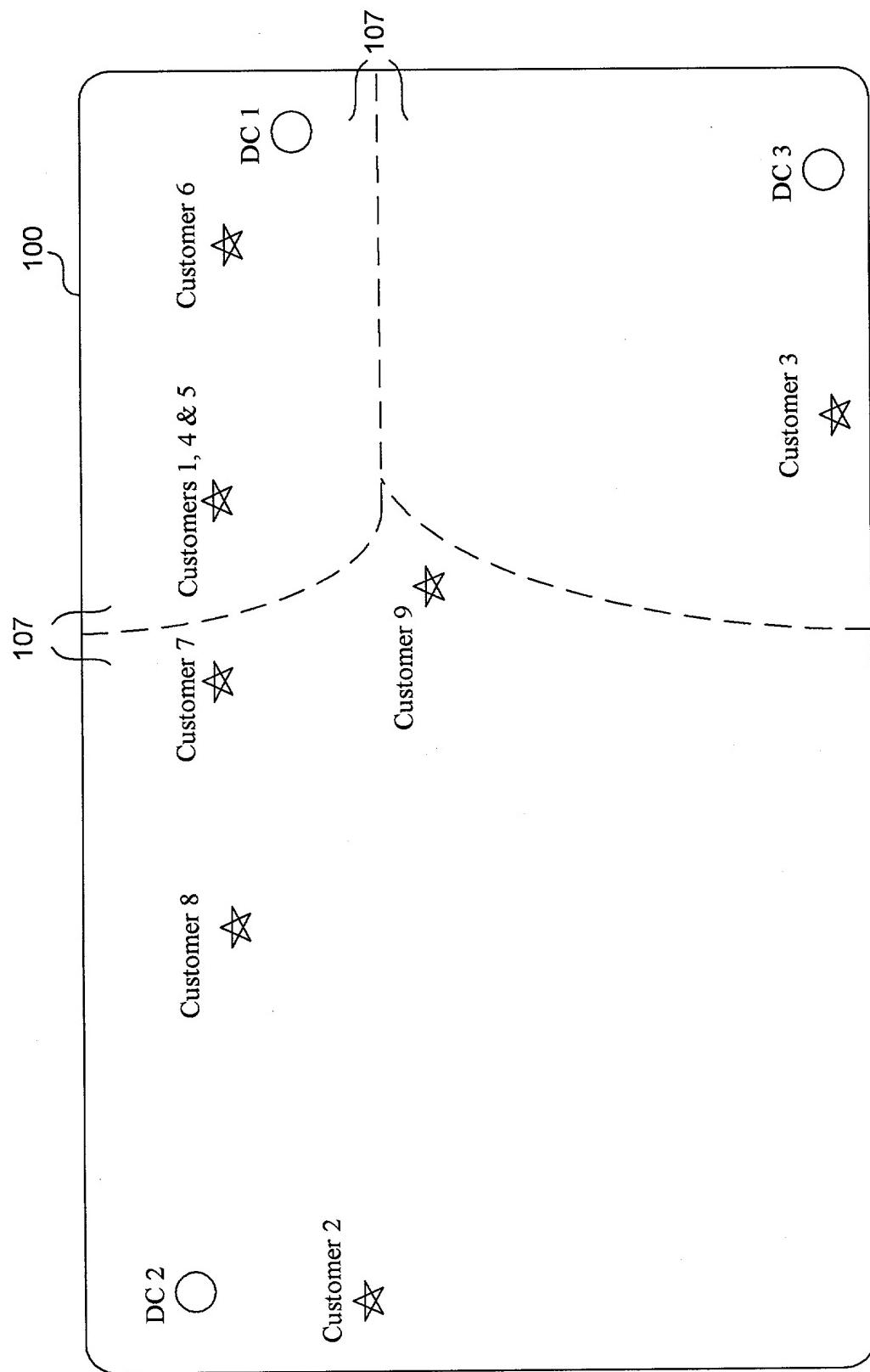
	<i>116a</i>	<i>116b</i>	<i>116c</i>	<i>116d</i>
	DC 1, Processing Lane 1	DC 1, Processing Lane 2	DC 2, Processing Lane 1	DC N, Processing Lane M
<i>115a</i>	<b>Order Type 1</b>	\$0.50	\$0.50	\$0.75
<i>115b</i>	<b>Order Type 2</b>	-	\$0.75	\$0.75
<i>115c</i>	<b>Order Type 3</b>	\$1.00	-	\$0.75
	⋮	⋮	⋮	⋮
<i>115d</i>	<b>Giftwrapping</b>	-	\$2.00	\$2.00
	⋮	⋮	⋮	⋮

*Fig. 1C*

Example Direct Packing Material Cost Database

	<i>120a</i>	<i>120b</i>	<i>120c</i>
	DC 1	DC 2	DC N
<i>119a</i>	<b>Order Type 1</b>	\$0.50	\$0.50
<i>119b</i>	<b>Order Type 2</b>	\$0.20	\$0.25
	⋮	⋮	⋮

*Fig. 1D*



**Fig. 1E**

Example Estimated Customer Goodwill Cost From Expected Delivery Date Deviation Database

	<i>124a</i>	<i>124b</i>	<i>124c</i>	
	<b>Customer 1</b>	<b>Customer 2</b>	<b>Customer 3</b>	
		⋮		
<i>123a</i>	<b>1 day early</b>	\$-5.00	-	\$-1.00
<i>123b</i>	<b>on-time</b>	-	-	\$-0.50
<i>123c</i>	<b>1 day late</b>	\$2.00	\$2.00	\$1.00
<i>123d</i>	<b>2 days late</b>	\$5.00	\$2.50	\$1.00
<i>123e</i>	<b>3 days late</b>	\$10.00	\$3.00	\$2.00
<i>123f</i>	<b>4 days late</b>	\$25.00	\$5.00	\$1.75
		⋮		
				...

*Fig. 1F*

Example Estimated Customer Goodwill Cost From Expected Order Split Deviation Database

	<i>128a</i>	<i>128b</i>	<i>128c</i>	
	<b>Customer 1</b>	<b>Customer 2</b>	<b>Customer 3</b>	
		⋮		
<i>127a</i>	<b>1 less order split</b>	\$-2.50	-	\$-0.25
<i>127b</i>	<b>expected # of order splits</b>	-	-	\$-0.10
<i>127c</i>	<b>1 more order split</b>	\$0.50	\$0.50	\$0.25
<i>127d</i>	<b>2 more order splits</b>	\$1.25	\$0.65	\$0.25
<i>127e</i>	<b>3 more order splits</b>	\$2.50	\$0.75	\$0.50
<i>127f</i>	<b>4 more order splits</b>	\$6.25	\$1.25	\$0.40
		⋮		
				...

*Fig. 1G*

Example New Order Optimal Allocation Database

	132a	132b	132c	132d
	DC 1, Processing Lane 1	DC 1, Processing Lane 2	DC 2, Processing Lane 1	DC N, Processing Lane M
	:			
131a	7am-8am EST Order Type 1	25	15	60
131b	7am-8am EST Order Type 2	-	30	10
	:			
131c	8am-9am EST Order Type 1	25	25	50
131d	8am-9am EST Order Type 2	-	30	20
	:			

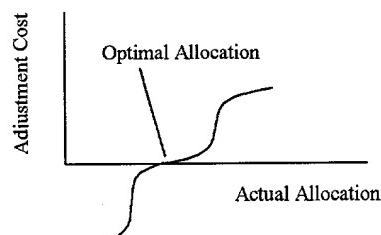
**Fig. 1H**

Example New Order Actual Allocation Differential

	136a	136b	136c	136d
	DC 1, Processing Lane 1	DC 1, Processing Lane 2	DC 2, Processing Lane 1	DC N, Processing Lane M
	:			
135a	7am-8am EST Order Type 1	-	+30	-5
135b	7am-8am EST Order Type 2	-	+5	-5
	:			

**Fig. 1I**

Example New Order Allocation Adjustment Formula

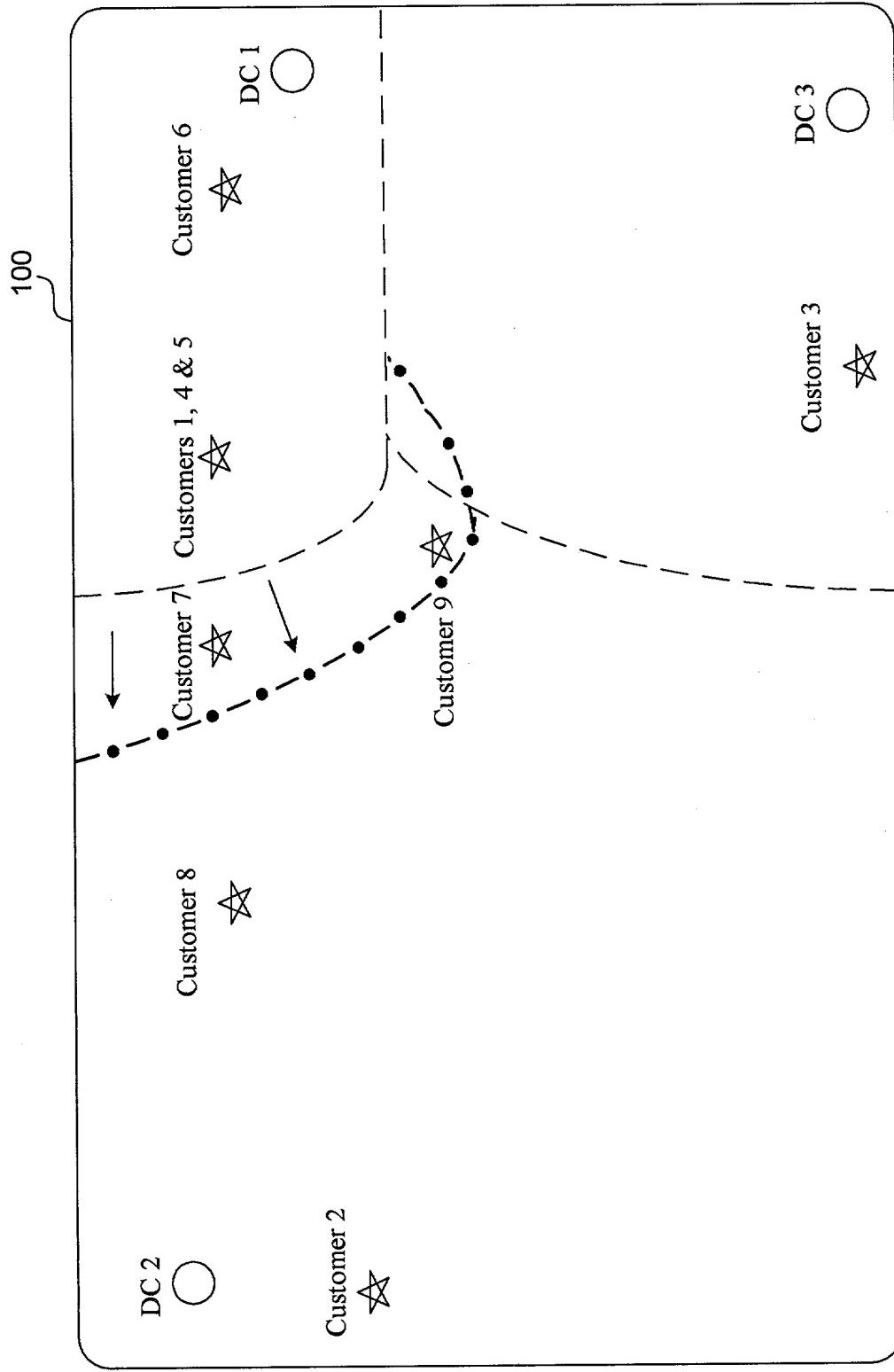


**Fig. 1J**

Example Order Fulfillment Plan Option Comparison (for order by Customer 1 of Type 2 with 2 items)

	<i>I40a</i>	<i>I40b</i>	<i>I40c</i>	<i>I40d</i>	<i>I40e</i>	<i>I40f</i>	<i>I40g</i>
	Direct Shipping Cost	Direct Labor Cost	Direct Packing Material Cost	Delivery Date Customer Goodwill Cost	Order Split Customer Goodwill Cost	Allocation Adjustment Cost	Total Cost
<i>I39a</i>	both items from DC 1, Processing Lane 2; standard shipping	\$3.00	\$0.75	\$0.20	-	\$0.25	...
<i>I39b</i>	both items from DC 2, Processing Lane 1; standard shipping	\$3.50	\$0.75	\$0.25	-	-	\$3.50
<i>I39c</i>	item 1 from DC 1, Processing Lane 2; and item 2 from DC 2, Processing Lane 1; standard shipping	\$6.50	\$1.50	\$0.45	-	\$0.50	-\$0.35
							\$8.60
<i>I39d</i>	both items from DC 1, Processing Lane 2; Next Day Air shipping	\$8.50	\$0.75	\$0.20	-\$5.00	-	\$0.25
							\$4.70
							⋮

**Fig. IK**



**Fig. 1L**

200

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*Fig. 2A*

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**Fig. 2B**



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**Fig. 2C**

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Order Total: \$27.19

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**Delivery Time:** 09/08/xx

Shipping Address:	Items Ordered	Price
Customer 1 Work 123 Main St. Seattle, WA 98101	1 of: Kenny Loggins Alive Kenny Loggins - Availability: 1 in stock - Gift-wrap and note: None <a href="#">Change</a>	\$21.49
<b>Shipping Method:</b> <a href="#">Change</a> Standard Shipping		
<b>Shipping Option:</b> One shipment when complete order is ready.		

Item(s) Subtotal: \$21.49  
Shipping & Handling: \$3.50  
-----

Total Before Tax: \$24.99  
Estimated Tax: \$2.20  
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Grand Total for This Order: \$ 27.19

*Fig. 2D*

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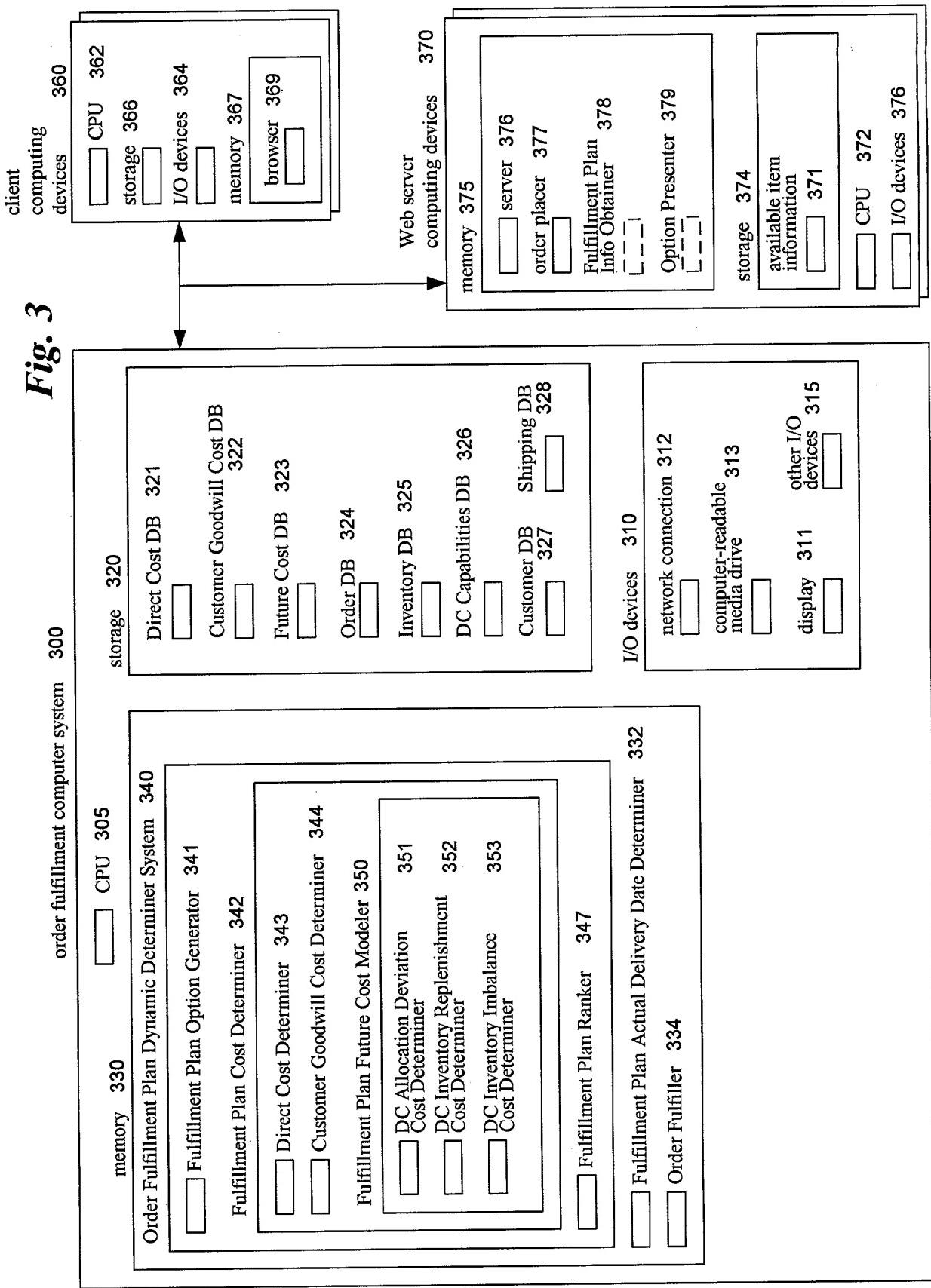
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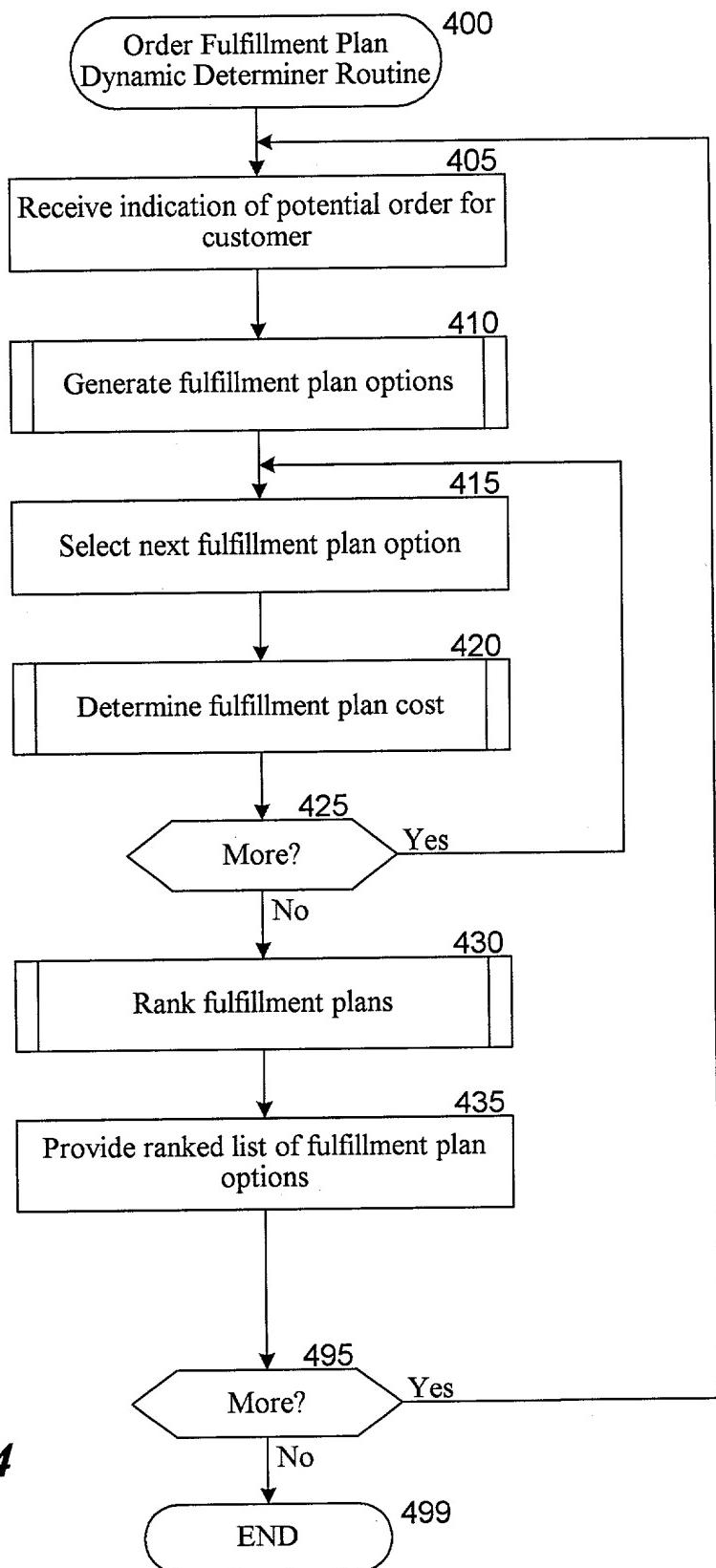
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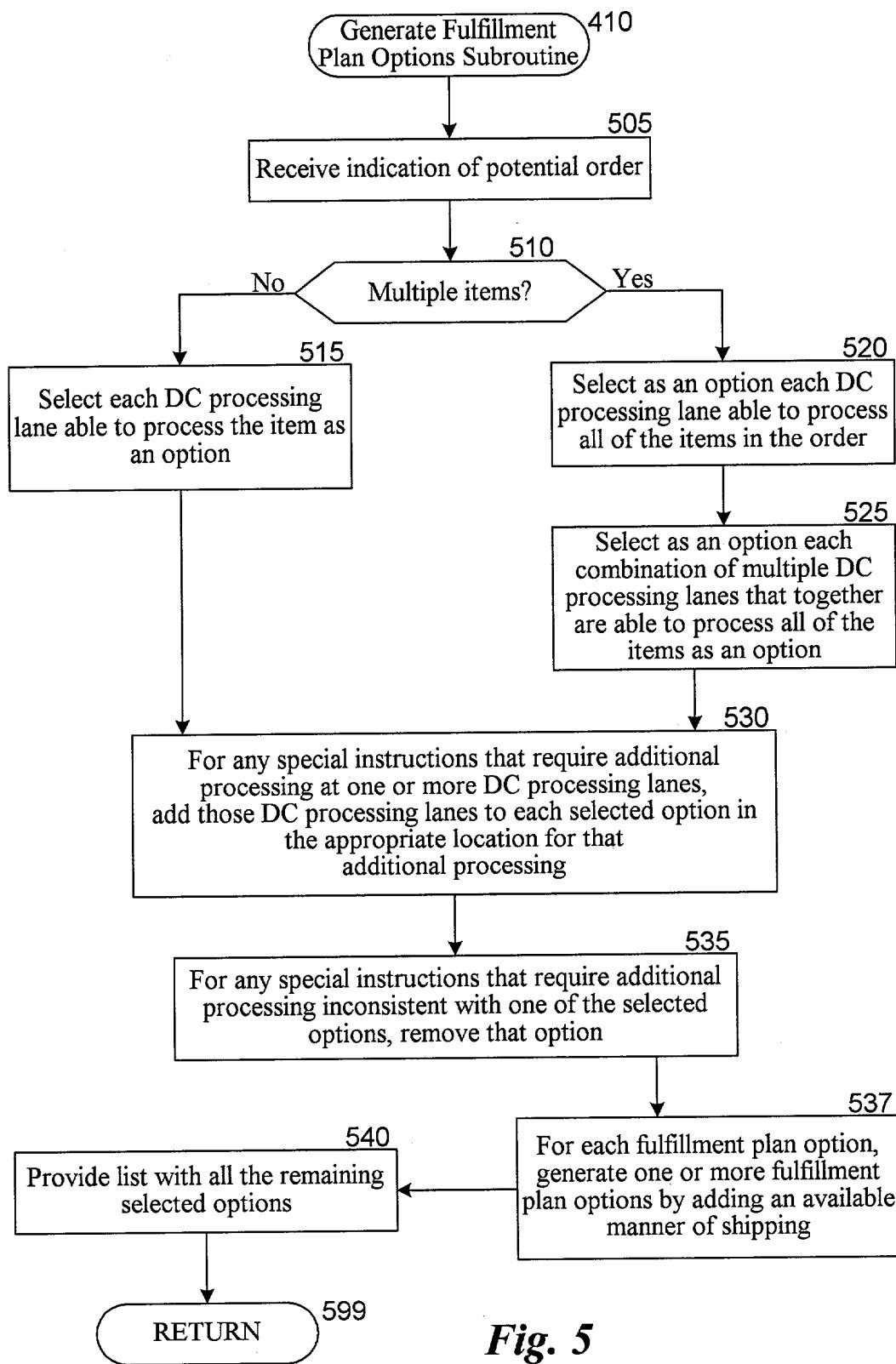
**Fig. 2E**

Fig. 3

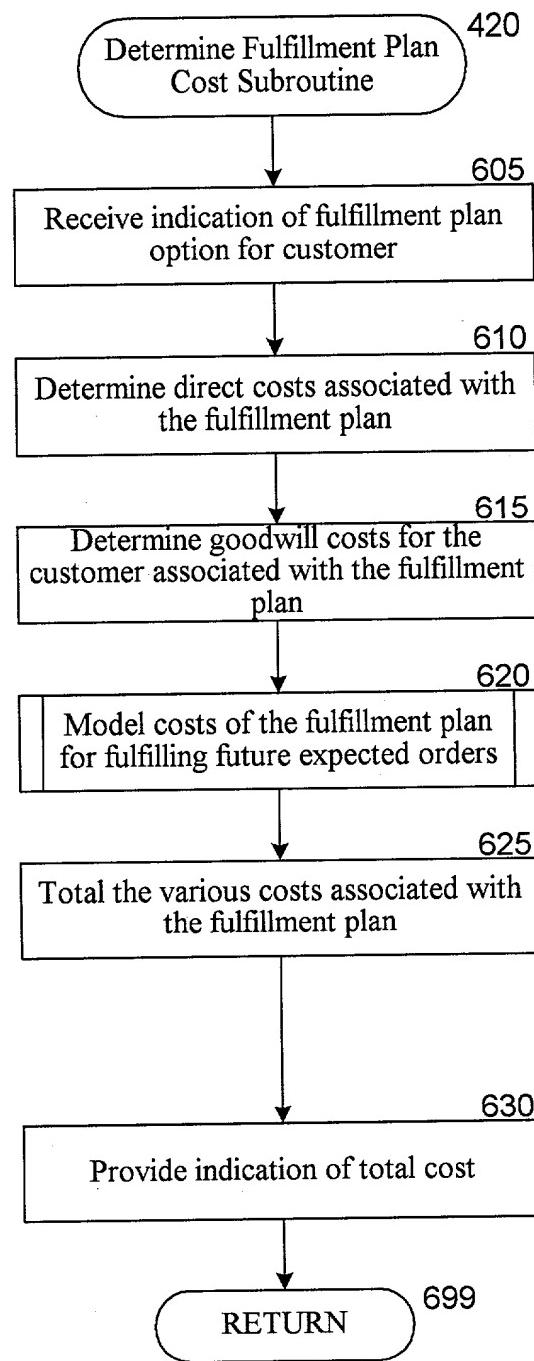




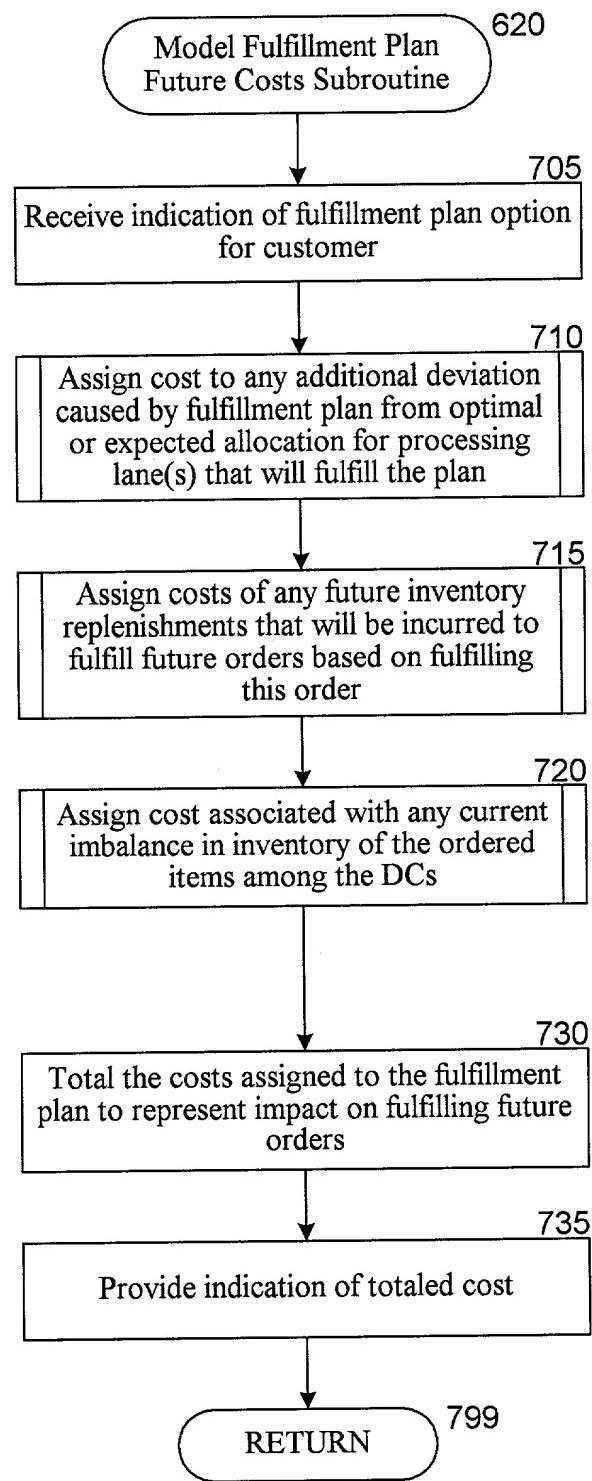
**Fig. 4**



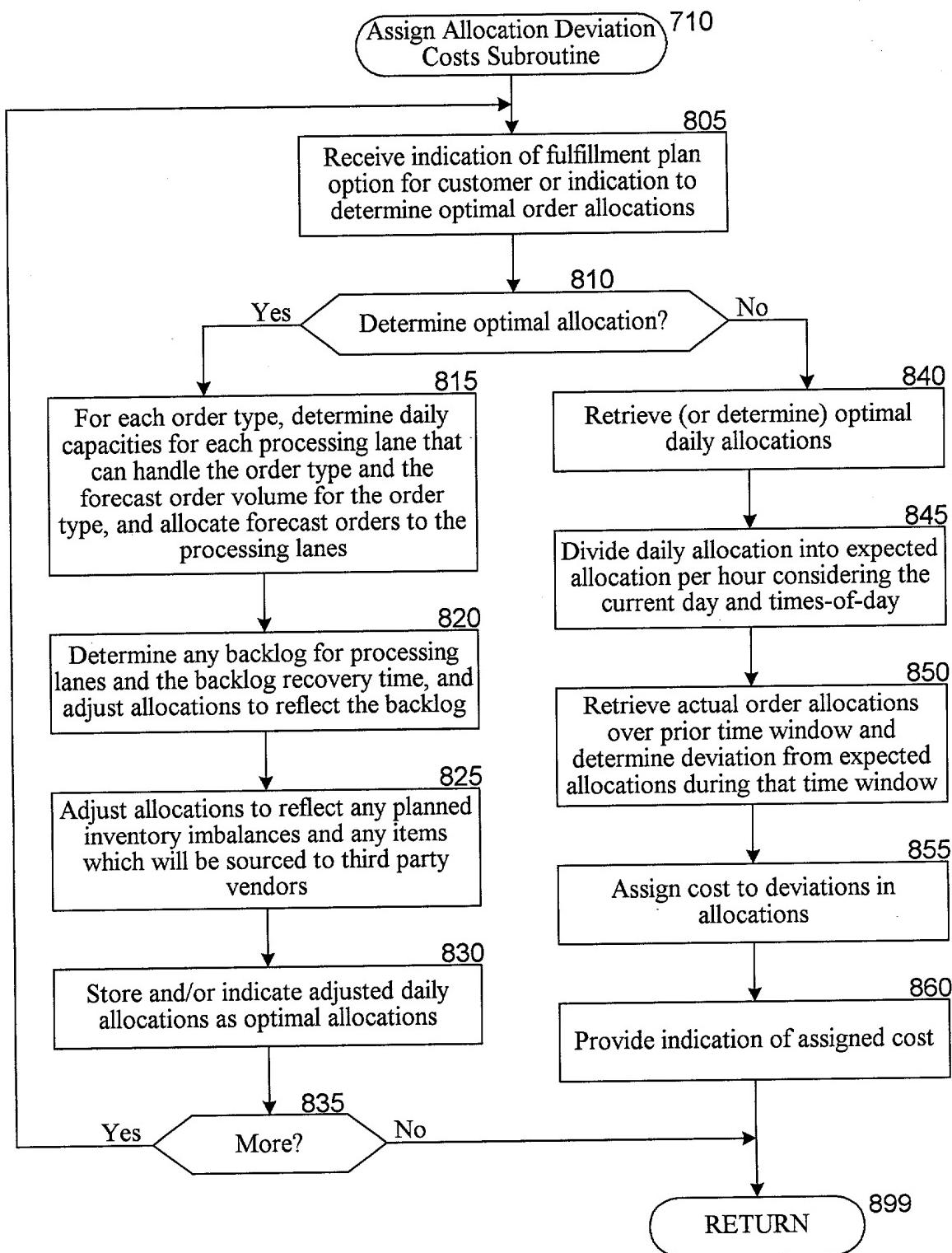
**Fig. 5**

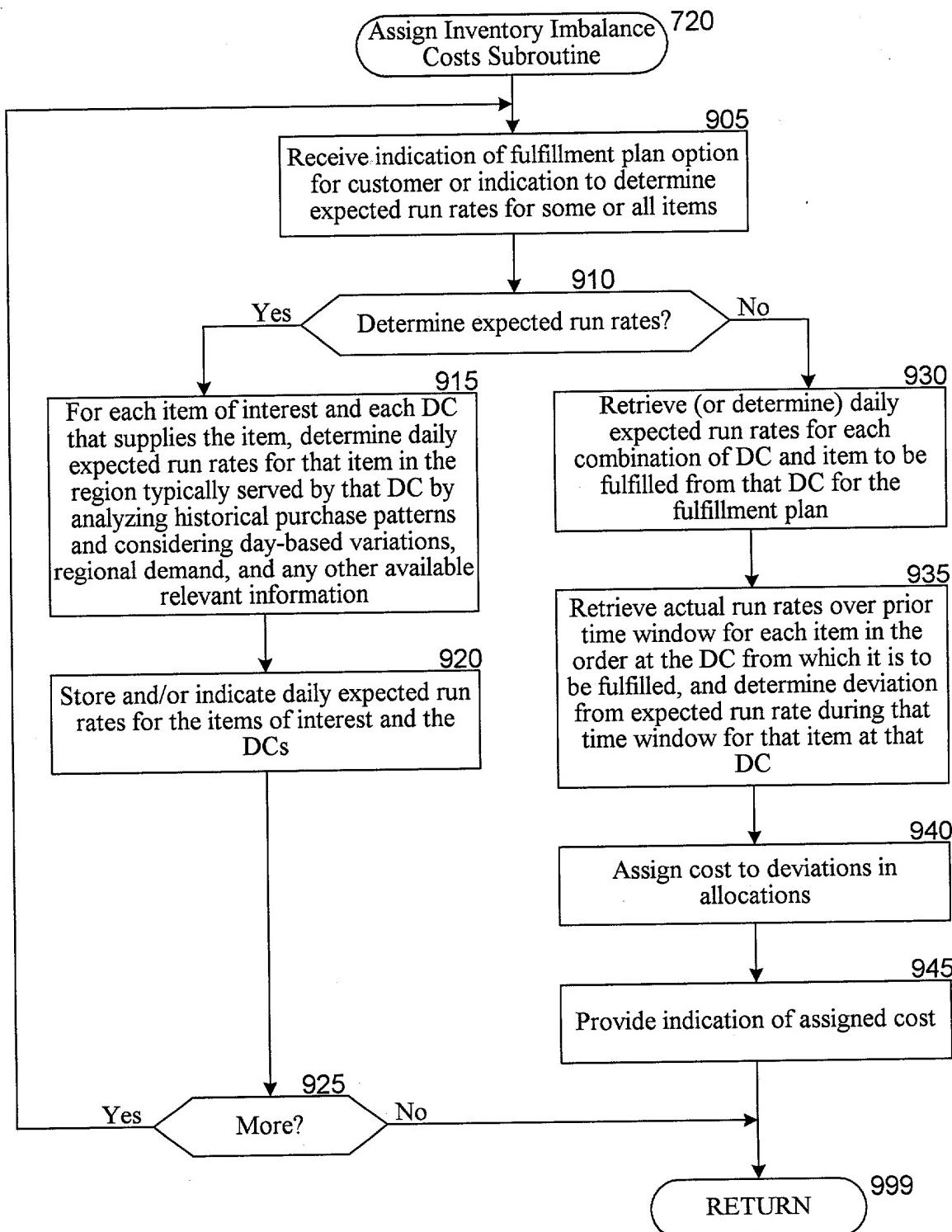


*Fig. 6*

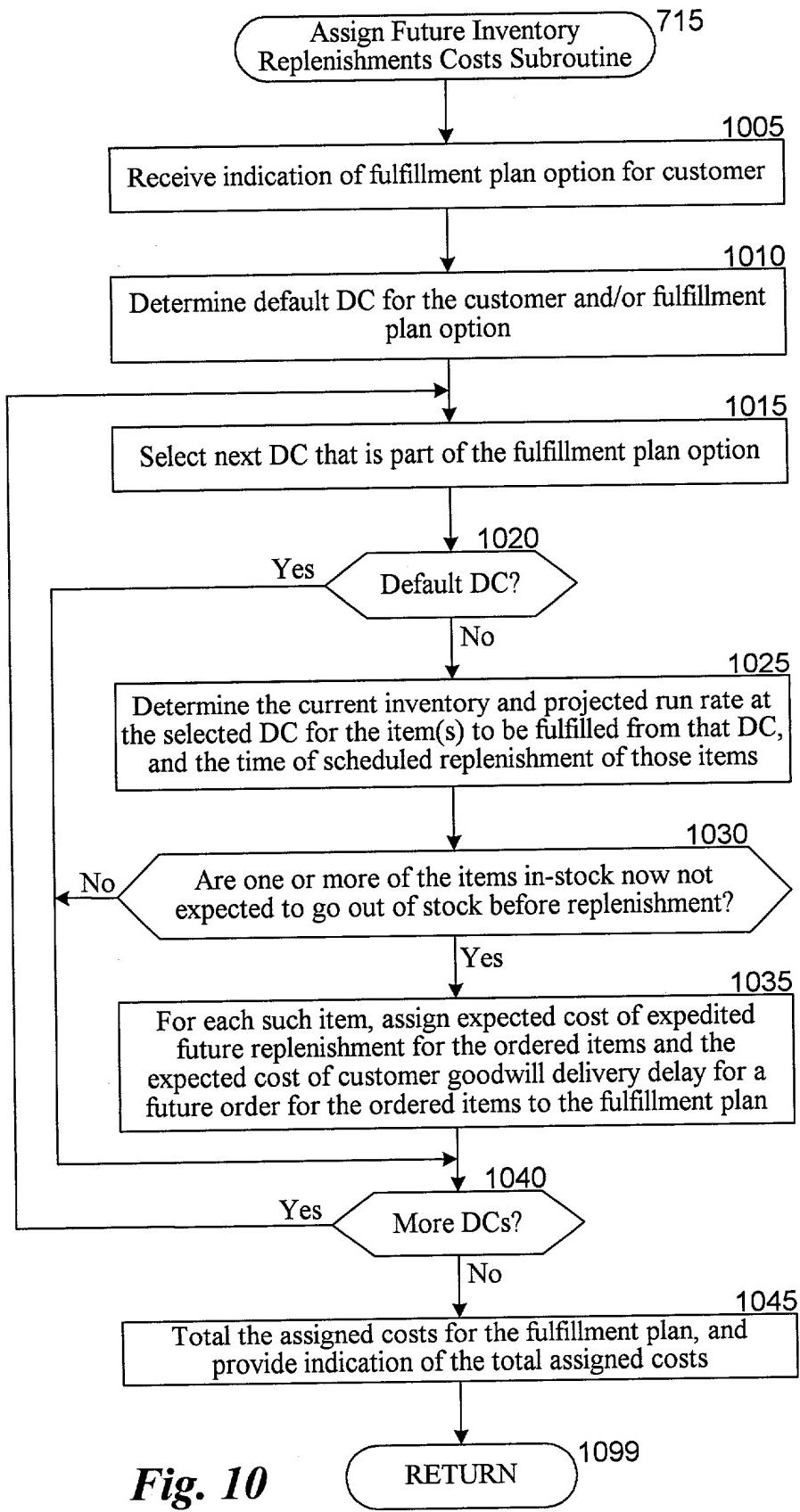


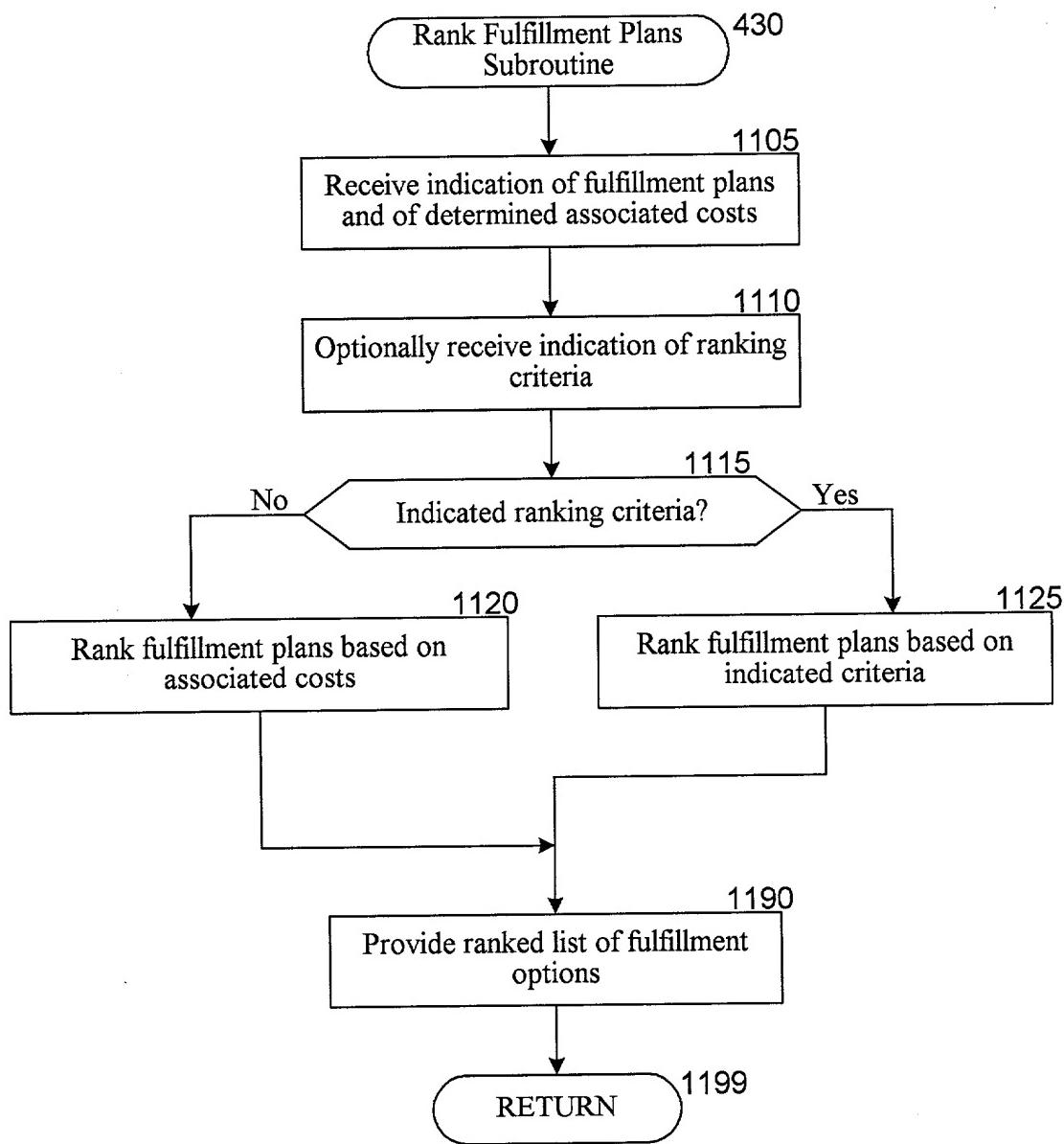
*Fig. 7*

**Fig. 8**

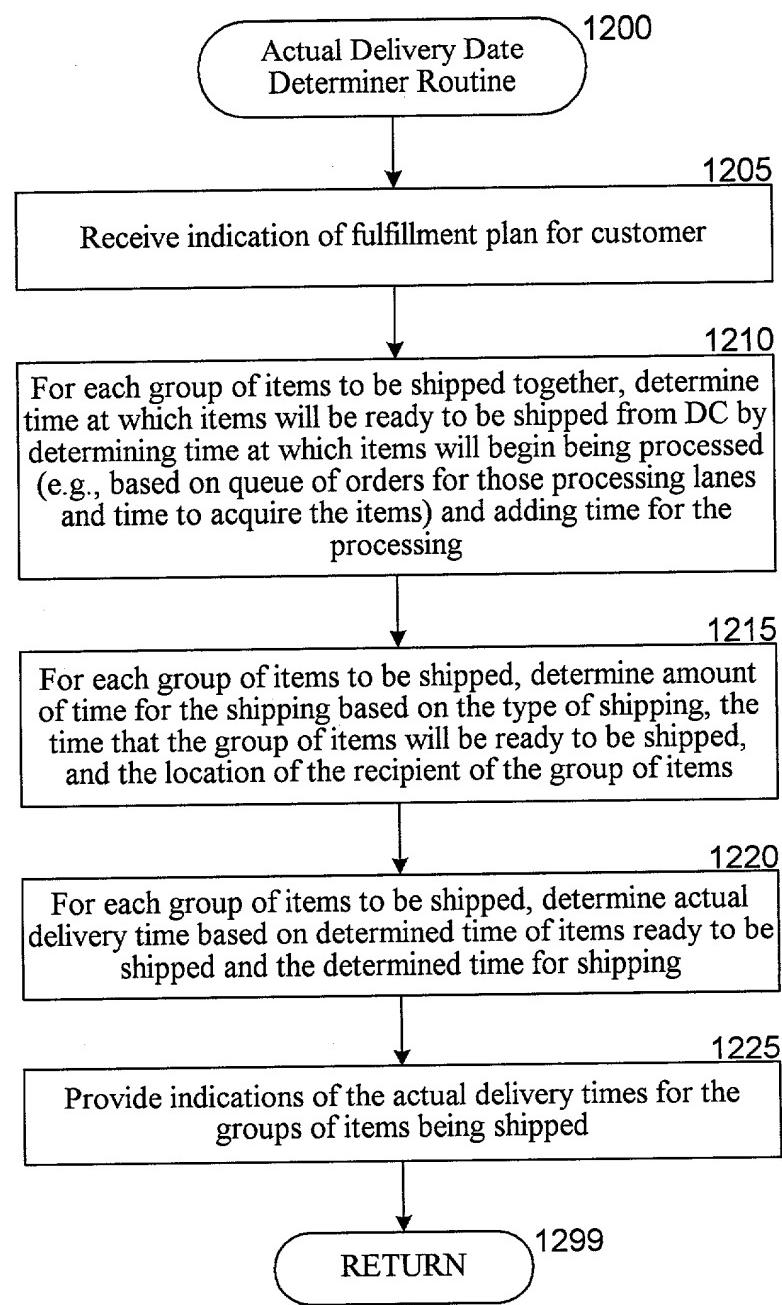


*Fig. 9*

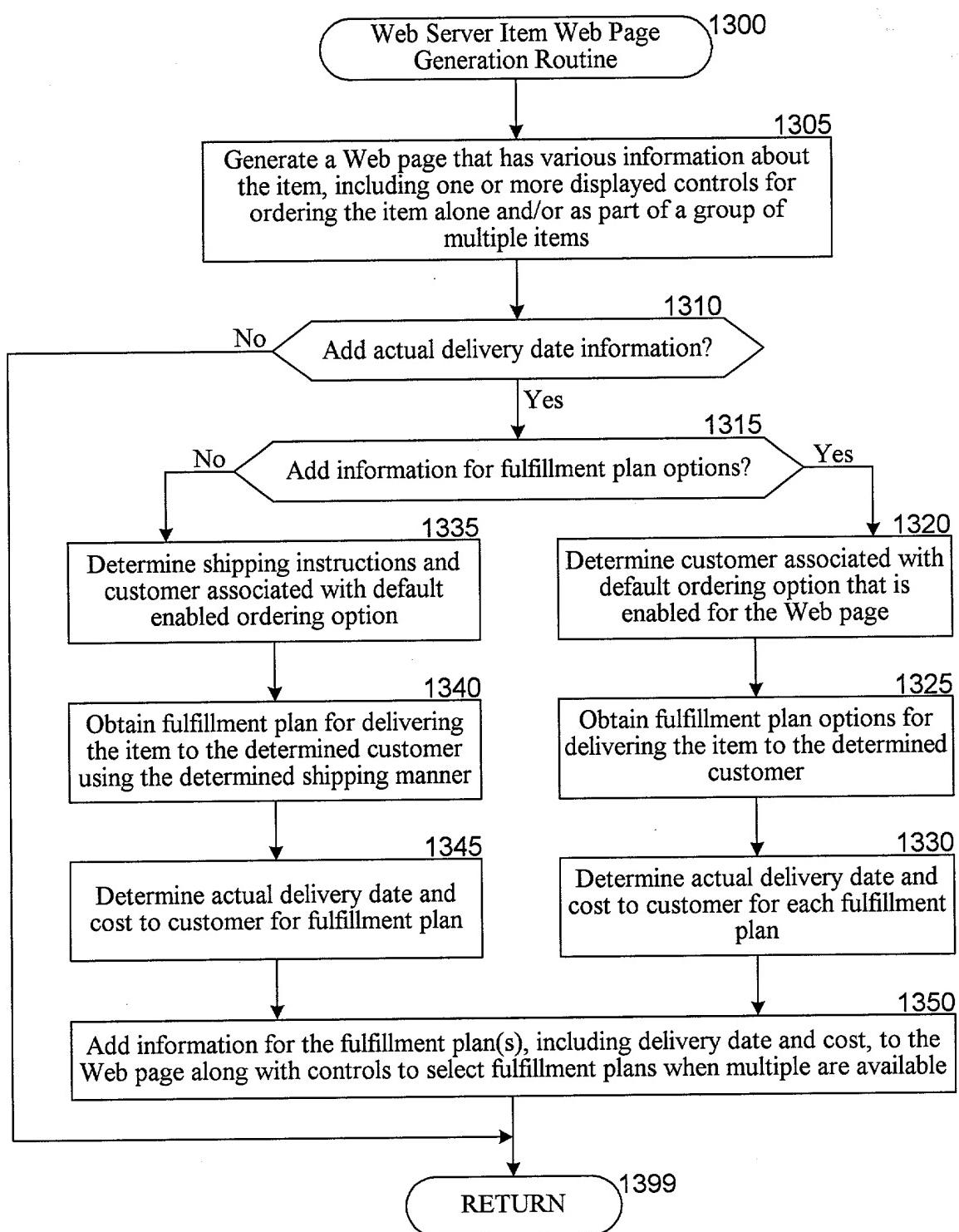




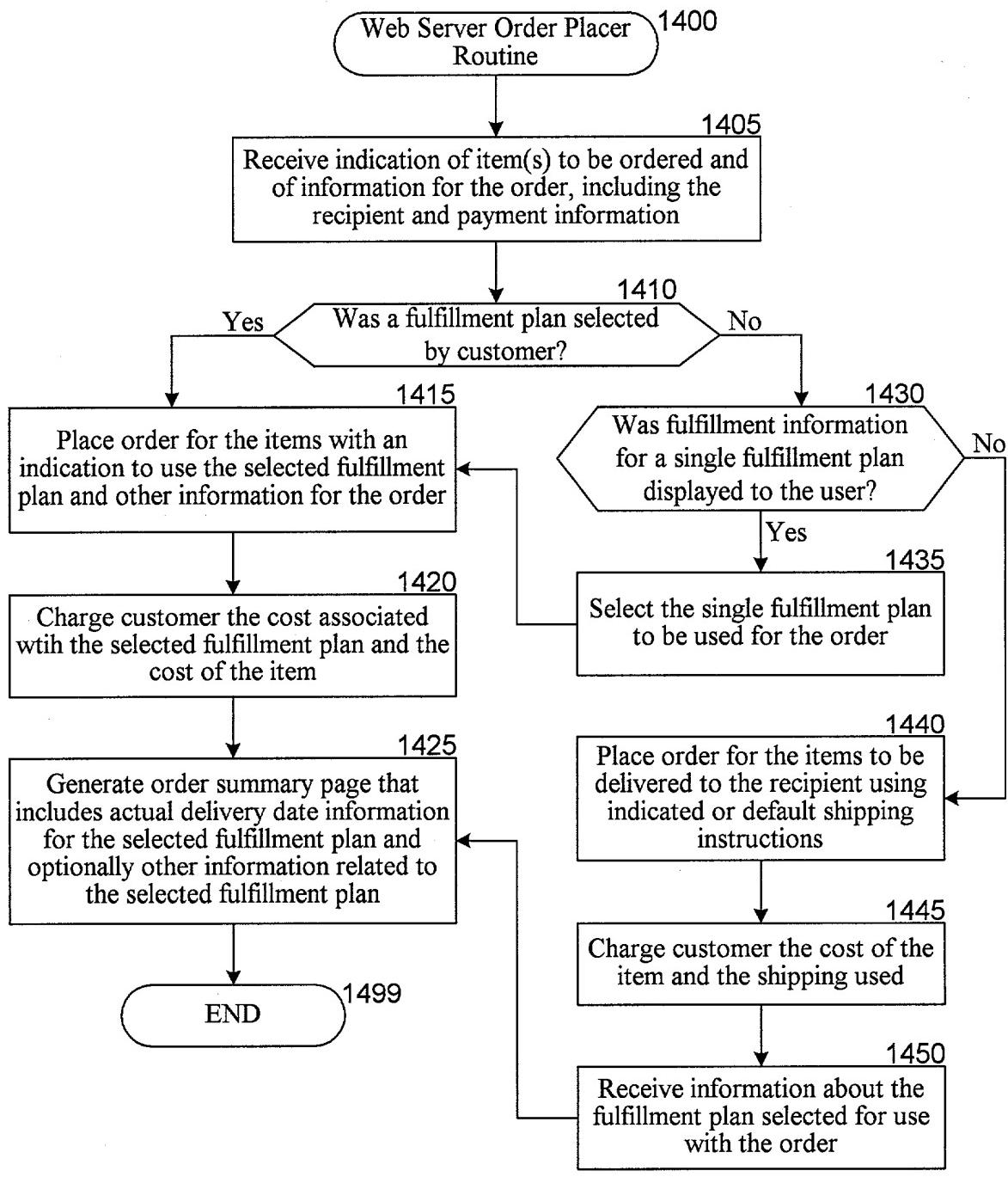
*Fig. 11*



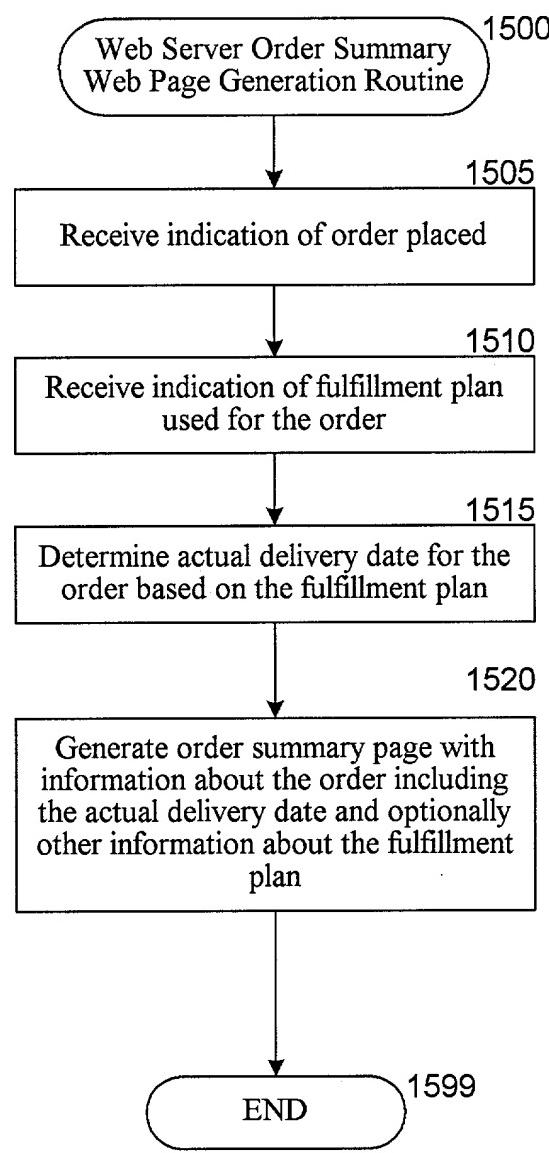
**Fig. 12**



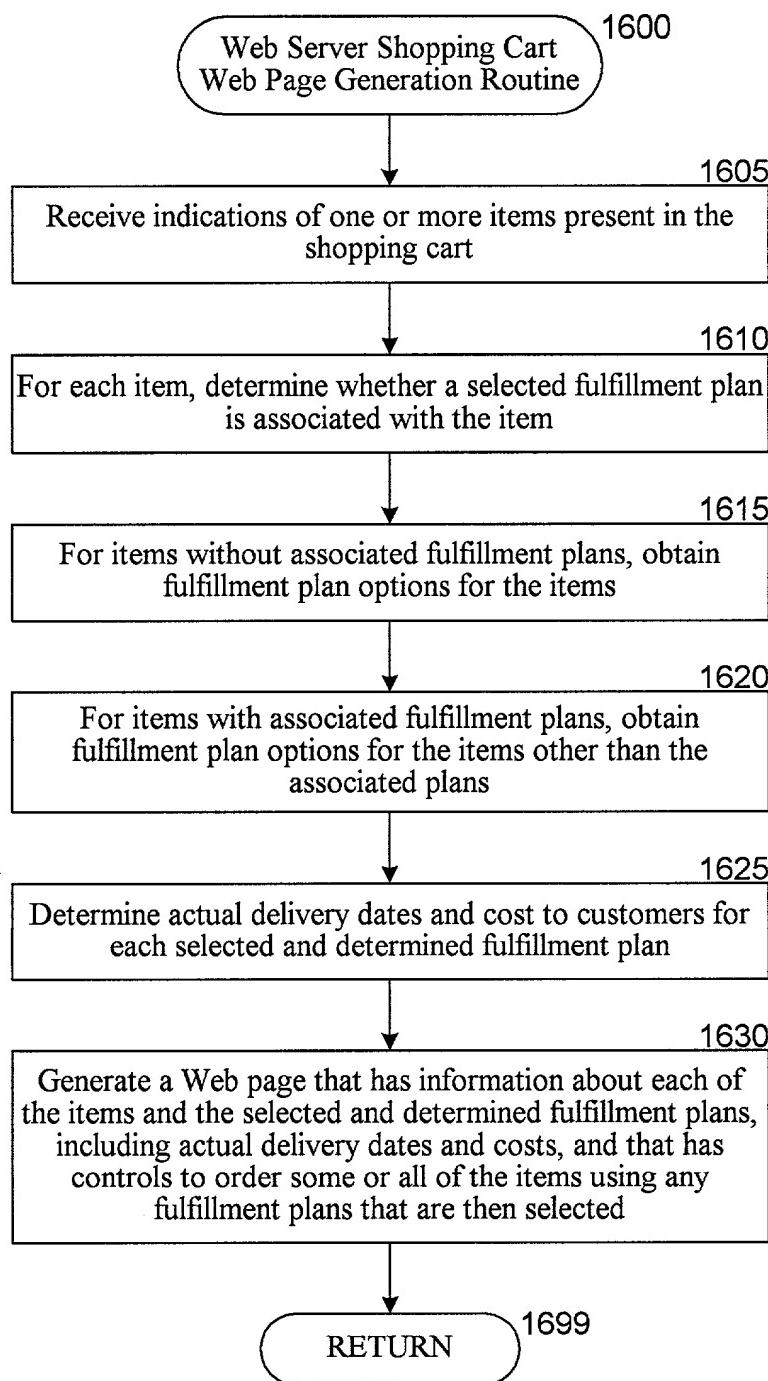
**Fig. 13**



*Fig. 14*



***Fig. 15***



*Fig. 16*